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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/673,629	09/29/2003	Hector F. DeLuca	1256-00923	2546	
26753 7	26753 7590 06/07/2005			EXAMINER	
ANDRUS, SCEALES, STARKE & SAWALL, LLP			HUI, SAN MING R		
100 EAST WISCONSIN AVENUE, SUITE 1100 MILWAUKEE. WI 53202		ART UNIT	PAPER NUMBER		
	,		1617		
		DATE MAILED: 06/07/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/673,629	DELUCA ET AL.			
Office Action Summary	Examiner	Art Unit			
	San-ming Hui	1617			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 14 March 2005.					
2a) This action is FINAL . 2b) ⊠ This					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) 18-22 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>18-22</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) te atent Application (PTO-152)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 14, 2005 has been entered.

Claims 18-22 are pending.

The rejection is directed to the method of treating colon cancer, breast cancer and prostate cancer only.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deluca et al (US Patent 5,843,928).

Deluca et al. teaches a genus of vitamin D compounds including 2-methylene-19-nor-20(S)- 1α ,25-dihydroxyvitamin D₃, an exemplified compound, as useful in treating colon cancer, breast cancer and prostate cancer (See claim 32, also col. 4, lines 43-47).

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Deluca et al. also teaches the vitamin D compounds therein, in a dosage of 0.01 to 100mcg/day as useful in treating leukemia, colon cancer, breast cancer and prostate cancer (See col. 4, lines 43-52).

Deluca et al. does not specifically teach 2-methylene-19-nor-20(S)-1 α ,25-dihydroxyvitamin D₃ as useful in treating colon cancer, breast cancer and prostate cancer.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ 2-methylene-19-nor-20(S)-1 α ,25-dihydroxyvitamin D₃, in the herein claimed dosage, in a method of treating colon cancer, breast cancer and prostate cancer.

One of ordinary skill in the art would have been motivated to employ 2-methylene-19-nor-20(S)- 1α ,25-dihydroxyvitamin D₃, in the herein claimed dosage, in a method of treating colon cancer, breast cancer and prostate cancer. It is known that the vitamin D compounds of Deluca as useful to treat colon cancer, breast cancer and prostate cancer. Possessing teachings of Deluca et al., one of skilled artisan would have motivated to employ any of the vitamin D compounds of Deluca et al., including 2-methylene-19-nor-20(S)- 1α ,25-dihydroxyvitamin D₃, in the method of treating colon cancer, breast cancer and prostate cancer.

Response to Arguments

Applicant's arguments filed March 14, 2005 averring unexpected benefits demonstrated in declaration by Dr. DeLuca, filed March 14, 2005, have been fully considered but they are not persuasive. Examiner notes that it is applicant's burden to

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under 35 USC 103 as set forth herein.

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demonstrate unexpected results over the prior art. See MPEP 716.02, also 716.02 (a) - (g). Furthermore, the unexpected results should be demonstrated with evidence that the differences in results are in fact unexpected and unobvious and of both statistical and practical significance. Ex parte Gelles, 22 USPQ2d 1318, 1319 (Bd. Pat. App. & Inter. 1992). Moreover, evidence as to any unexpected benefits must be "clear and convincing" In re Lohr, 137 USPQ 548 (CCPA 1963), and be of a scope reasonably commensurate with the scope of the subject matter claimed, In re Linder, 173 USPQ 356 (CCPA 1972). The showing in the declaration by Dr. DeLuca, filed March 14, 2005 demonstrates the unexpected inhibiting effect on HL-60 cells differentiation of 2MD (the instant compound) as compared to that of the other vitamin D compounds disclosed in US Patent 5,843,928. However, the showing is not commensurate with the scope of subject matter claimed. Examiner notes that HL-60 is a leukemia cell line; however, the instant claims encompassing neoplastic disorders such as breast cancer, prostate cancer, and colon cancer. Therefore, the claims are still considered properly rejected

Any inquiry concerning this communication or earlier communications from the examiner should be directed to San-ming Hui whose telephone number is (571) 272-0626. The examiner can normally be reached on Mon 9:00 to 1:00, Tu - Fri from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, PhD., can be reached on (571) 272-0629. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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